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To: United States Patent and Trademark
Office

Date: January 7, 2005

Attention: Examiner Quang Nguyen
Art Unit 1636

Re: Appl. No. 09/397,967; Filed 09/17/99
For: **Jak Kinases and Regulation of
Cytokine Signal Transduction**
Inventors: IHLE *et al.*
Confirmation: 9463

From: Lawrence B. Bugaisky, Reg. No. 35,086
LBB

Pages (including cover sheet): 30

Fax No: 571-273-8300

Our Reference: 0656.0370004/LBB/J-H

Message

Transmitted herewith for appropriate action are the following documents:

1. Letter;
2. Information Disclosure Statement Form PTO-1449, 26 pages; and
3. Copy of Postcard Receipt dated August 21, 2001.

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Lawrence B. Bugaisky
January 7, 2005

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Sterne, Kessler, Goldstein & Fox P.L.L.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skf.com

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JAN 07 2005 NO. 8697 P. 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

IHLE *et. al.*

Application No.: 09/397,967

Filed: September 17, 1999

For: **Jak Kinases and Regulation of
Cytokine Signal Transduction**

Confirmation No.: 9463

Art Unit: 1636

Examiner: NGUYEN, QUANG

Atty. Docket: 0656.0370004/LBB/J-H

Letter

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a copy of the twenty-six page Information Disclosure Statement Form PTO-1449 which was originally filed for consideration on August 21, 2001 and resubmitted on February 26, 2002. Further to Examiner's Ngyuen's telephone conversation with Julie Heider (Registration Number 54,161) on January 6, 2005, Applicant's resubmit the PTO-1449 forms and respectfully request that the Examiner initial the PTO-1449 forms, indicating his consideration of the documents cited thereon, and return copies of the initialed PTO-1449 forms prior to payment of the issue fee.

Applicants also submit herewith a copy of the filing postcard, date stamped by the United States Patent and Trademark Office, as evidence of the filing of the Information Disclosure State on August 21, 2001.

- 2 -

IHLE *et. al.*
Appl. No. 09/397,967

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Lawrence B. Bugaisky
Attorney for Applicants
Registration No. 35,086

Date: January 7, 2005

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Washington, D.C. 20005-3934
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FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0656.0370004

APPLICATION NO.
09/397,967

APPLICANT
IHLE et al.

FILING DATE
September 17, 1999

GROUP
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,190,931	03/02/1993	Inouye et al.	435	91	11/15/1989
	AB1	6,210,654 B1	04/03/2001	Ihle et al.	424	9-2	10/08/1997
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 92/10519	06/25/1992	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Argetsinger, L.S. et al., "Identification of JAK2 as a Growth Hormone Receptor-Associated Tyrosine Kinase," <i>Cell</i> 74:237-244, Cell Press (July 1993).
	AS	1	Bartholomew, C. and J.N. Ihle, "Retroviral Insertions 90-Kilobases Proximal to the <i>Evi-1</i> Myeloid Transforming Gene Activate Transcription from the Normal Promoter," <i>Mol. Cell. Biol.</i> 11(4):1820-1828, American Society for Microbiology (1991).
	AT	1	Bird, T.A. et al., "Evidence that MAP (Mitogen-Activated Protein) Kinase Activation May Be a Necessary but not Sufficient Signal for a Restricted Subset of Responses in IL-1 Treated Epidermoid Cells," <i>Cytokine</i> 4(6):429-440, International Cytokine Society, Academic Press Ltd. (November 1992).

EXAMINER

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USPS/USPTO 10650/0370004/1449-0656 0370004
F Rev. 1/95

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FORM PTO-1449

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Campbell, G.S. et al., "Evidence for Involvement of the Growth Hormone Receptor-associated Tyrosine Kinase in Actions of Growth Hormone," <i>J. Biol. Chem.</i> 268(10):7427-7434, The American Society for Biochemistry and Molecular Biology, Inc. (April 1993).
AS	2	Carroll, M.P. et al., "Erythropoietin Induces Raf-1 Activation and Raf-1 is Required for Erythropoietin-mediated Proliferation," <i>J. Biol. Chem.</i> 266(23):14964-14969, The American Society for Biochemistry and Molecular Biology, Inc. (1991).
AT	2	Carroll, M.P. et al., "Interleukin-3 and Granulocyte-Macrophage Colony-stimulating Factor Mediate Rapid Phosphorylation and Activation of Cytosolic c-ras," <i>J. Biol. Chem.</i> 265(32):19812-19817, The American Society for Biochemistry and Molecular Biology, Inc. (1990).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Cleveland, J.L. <i>et al.</i> , "Tyrosine Kinase Oncogenes Abrogate Interleukin-3 Dependence of Murine Myeloid Cells through Signaling Pathways Involving <i>c-myc</i> : Conditional Regulation of <i>c-myc</i> Transcription by Temperature-Sensitive <i>v-ab1</i> ," <i>Mol. Cell. Biol.</i> 9(12):5685-5695, American Society (1989).
AS	3	Dusanter-Fourt, I. <i>et al.</i> , "Erythropoietin Induces the Tyrosine Phosphorylation of Its Own Receptor in Human Erythropoietin-responsive Cells," <i>J. Biol. Chem.</i> 267(15):10670-10675, The American Society for Biochemistry and Molecular Biology, Inc. (May 1992).
AT	3	Edgington, S.M., "Molecular Crosstalk: Will virology and growth-factor research aid cytokine drug discovery?" <i>Bio/Technol.</i> 11:465-468, Nature Publishing Co. (April 1993).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	4	Fimmbach-Kraft, I. et al., "tyk2, prototype of a novel class of non-receptor tyrosine kinase genes," <i>Oncogene</i> 5:1329-1336, Macmillan Press Ltd. (1990).
	AS	4	Fu, X.-Y., "A Transcription Factor with SH2 and SH3 Domains is Directly Activated by an Interferon α -Induced Cytoplasmic Protein Tyrosine Kinase(s)," <i>Cell</i> 70:323-335, Cell Press (July 1992).
	AT	4	Fu, X.-Y. et al., "The proteins of ISGF-3, the interferon α -induced transcriptional activator, define a gene family involved in signal transduction," <i>Proc. Natl. Acad. Sci. USA</i> 89:7840-7843, National Academy of Sciences of the USA (August 1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>5</u>	Fung, M.R. <i>et al.</i> , "A Tyrosine Kinase Physically Associates With the β -Subunit of the Human IL-2 Receptor," <i>J. Immunol.</i> 147(4):1253-1260, The American Association of Immunologists (1991).	
AS	<u>5</u>	Gilmour, K.C. and N. C. Reich, "Receptor to nucleus signaling by prolactin and interleukin 2 via activation of latent DNA-binding factors," <i>Proc. Natl. Acad. Sci. USA</i> 91:6850-6854, National Academy of Sciences of the USA (July 1994).	
AT	<u>5</u>	Goodman, P.A. <i>et al.</i> , "Role of Tyrosine Kinases in Induction of the c-jun Proto-oncogene in Irradiated B-lineage Lymphoid Cells," <i>J. Biol. Chem.</i> 273:17742-17748, The American Society for Biochemistry and Molecular Biology, Inc. (July 1998).	

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	AR	6	Hanks, S.K. et al., "The Protein Kinase Family: Conserved Features and Deduced Phylogeny of the Catalytic Domains," <i>Science</i> 241:42-52, Association for the Advancement of Science (1988).
	AS	6	Harpur, A.B. et al., "JAK2, a third member of the JAK family of protein tyrosine kinases," <i>Oncogene</i> 7:1347-1353, Macmillan Press Ltd. (July 1992).
	AT	6	Howard, O.M.Z. et al., "Characterization of a class 3 tyrosine kinase," <i>Oncogene</i> 7:895-900, Macmillan Press Ltd. (May 1992).

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AR	<u>I</u>	Hunter, T., "A Thousand and One Protein Kinases," <i>Cell</i> 50:823-829, Cell Press (1987).
AS	<u>I</u>	Hunter, T., "Cytokine Connections," <i>Nature</i> 366:114-116, Macmillan Publishers Ltd. (November 1993).
AT	<u>I</u>	Ihle, J.N., "Interleukin-3 and Hematopoiesis," in: <i>Interleukins: Molecular Biology and Immunology</i> , Kishimoto, T., ed., Karger, Basel, pp. 65-106 (1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>8</u>	Ihle, J.N. and D. Askew, "Origins and Properties of Hematopoietic Growth Factor-Dependent Cell Lines," <i>Int. J. Cell Cloning</i> 7(2):68-91, AlphaMed Press (1989).
	AS	<u>8</u>	Ihle, J.N., "Cytokine receptor signalling," <i>Nature</i> 377:591-594, Macmillan Publishers Ltd. (October 1995).
	AT	<u>8</u>	Ip, M.Y. et al., "CNTF and LIF Act on Neuronal Cells via Shared Signaling Pathways That Involve the IL-6 Signal Transducing Receptor Component gp130," <i>Cell</i> 69:1121-1132, MIT Press (June 1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	2	Isfort, R.J. <i>et al.</i> , "Interleukin 3 binds to a 140-kDa phosphotyrosine-containing cell surface protein," <i>Proc. Natl. Acad. Sci. USA</i> 85:7982-7986, National Academy of Sciences of the USA (1988).
	AS	2	Keppel, C.A. <i>et al.</i> , "Regulating gene expression in transgenic animals," <i>Curr. Opin. Biotech.</i> 3:548-553, Current Biology Ltd. (October 1992).
	AT	2	Koch, C.A. <i>et al.</i> , "SH2 and SH3 Domains: Elements That Control Interactions of Cytoplasmic Signaling Proteins," <i>Science</i> 252:668-674, Association for the Advancement of Science (1991).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>10</u>	Linnekin, D. et al., "Association of the erythropoietin receptor with protein tyrosine kinase activity," <i>Proc. Natl. Acad. Sci. USA</i> 89:6237-6241, National Academy of Sciences of the USA (July 1992).
	AS	<u>10</u>	Linnekin, D. and W.L. Farrar, "Signal transduction of human interleukin 3 and granulocyte-macrophage colony-stimulating factor through serine and tyrosine phosphorylation," <i>Biochem. J.</i> 271:317-324, London Portland Press On Behalf Of The Biochemical Society (1990).
	AT	<u>10</u>	Maliszewski, C.R. and W.C. Fanslow, "Soluble receptors for IL-1 and IL-4: biological activity and therapeutic potential," <i>TibTech</i> 8:324-329, Elsevier Science Publishers Ltd (1990).

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	AR	<u>11</u>	Mano, H. <i>et al.</i> , "Expression of a novel form of Tec kinase in hematopoietic cells and mapping of the gene to chromosome 5 near Kit," <i>Oncogene</i> 8:417-424, Macmillan Press Ltd. (February 1993).
	AS	<u>11</u>	Manthorpe, M. <i>et al.</i> , "Cholinergic Neurotrophic Factors: Fractionation Properties of an Extract from Selected Chick Embryonic Eye Tissues," <i>J. Neurochem.</i> 34(1):69-75, Blackwell Science Ltd. (1980).
	AT	<u>11</u>	Metcalf, D., "The molecular control of cell division, differentiation commitment and maturation in haemopoietic cells," <i>Nature</i> 339:27-30, Macmillan Publishers Ltd. (1989)

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	AR	12	Meydan, N. et al., "Inhibition of acute lymphoblastic leukaemia by a Jak-2 inhibitor," <i>Nature</i> 379:645-648, Macmillan Publishers Ltd (February 1996).
	AS	12	Miura, O. et al., "Inactivation of Erythropoietin Receptor Function by Point Mutations in a Region Having Homology with Other Cytokine Receptors," <i>Mol. Cell. Biol.</i> 13(3):1788-1795, American Society for Microbiology (March 1993).
	AT	12	Miura, O. et al., "Induction of Tyrosine Phosphorylation by the Erythropoietin Receptor Correlates with Mitogenesis," <i>Mol. Cell. Biol.</i> 11(10):4895-4902, American Society for Microbiology (1991).

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	AR	<u>13</u>	Miyajima, A. et al., "Cytokine Receptors and Signal Transduction," <i>Annu. Rev. Immunol.</i> 10:295-331, Annual Reviews Inc. (April 1992).
	AS	<u>13</u>	Morla, A.O. et al., "Hematopoietic Growth Factors Activate the Tyrosine Phosphorylation of Distinct Sets of Proteins in Interleukin-3-Dependent Murine Cell Lines," <i>Mol. Cell. Biol.</i> 8(5):2214-2218, American Society for Microbiology (1988).
	AT	<u>13</u>	Müller, M. et al., "The protein tyrosine kinase JAK1 complements defects in interferon- α/β and - γ signal transduction," <i>Nature</i> 366:129-135, Macmillan Publishers Ltd (November 1993).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0656.0370004APPLICATION NO.
09/397,967APPLICANT
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1632

U.S. PATENT DOCUMENTS

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AR	14	O'Dell, T.J. et al., "Long-term potentiation in the hippocampus is blocked by tyrosine kinase inhibitors," <i>Nature</i> 353:558-560, Macmillan Publishers Ltd (1991).
AS	14	Ohtsuka, M. et al., "Ligand-Induced Phosphorylation of the Colony-Stimulating Factor 1 Receptor Can Occur through an Intermolecular Reaction That Triggers Receptor Down Modulation," <i>Mol. Cell. Biol.</i> 10(4):1664-1671, American Society For Microbiology (1990).
AT	14	Olsson, T., "Cytokines in neuroinflammatory disease: role of myelin autoreactive T cell production of interferon-gamma," <i>J. Neuroimmunol.</i> 40:211-218, Elsevier Science Publishers B.V. (October 1992).

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	AR	15	Partanen, J. et al., "Putative tyrosine kinases expressed in K-562 human leukemia cells," <i>Proc. Natl. Acad. Sci. USA</i> 87:8913-8917, National Academy of Sciences of the USA (1990).
	AS	15	Pellegrini, S. and C. Schindler, "Early events in signaling by interferons," <i>TIBS</i> 18:338-342, Elsevier Science Publishers (September 1993).
	AT	15	Pellegrini, S. et al., "Use of a Selectable Marker Regulated by Alpha Interferon To Obtain Mutations in the Signaling Pathway," <i>Mol. Cell. Biol.</i> 9(11):4605-4612, American Society for Microbiology (1989).

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AR	16	Pritchard, M.A. <i>et al.</i> , "Two members of the JAK family of protein tyrosine kinases map to Chromosome 1p31.3 and 9p24," <i>Mammalian Genome</i> 3:36-38, Springer-Verlag (February 1992).
AS	16	Quelle, F.W. <i>et al.</i> , "Interleukin 3, Granulocyte-Macrophage Colony-stimulating Factor, and Transfected Erythropoietin Receptors Mediate Tyrosine Phosphorylation of a Common Cytosolic Protein (pp100) in FDC-ER Cells," <i>J. Biol. Chem.</i> 267(24):17055-17060, The American Society for Biochemistry and Molecular Biology, Inc. (August 1992).
AT	16	Quelle, F.W. and D.M. Wojchowski, "Proliferative Action of Erythropoietin is Associated with Rapid Protein Tyrosine Phosphorylation in Responsive B6Sut.EP Cells," <i>J. Biol. Chem.</i> 266(1):609-614, American Society for Biochemistry and Molecular Biology, Inc. (1991).

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AR	<u>17</u>	Riordan, M.L. and J.C. Martin, "Oligonucleotide-based therapeutics," <i>Nature</i> 350:442-443, Macmillan Publishers Ltd. (April 1991).
AS	<u>17</u>	Sanderson, C.J., "Interleukin-5, Eosinophils, and Disease," <i>Blood</i> 79:3101-3109, The American Society of Hematology (June 1992).
AT	<u>17</u>	Schindler, C. <i>et al.</i> , "Interferon-Dependent Tyrosine Phosphorylation of a Latent Cytoplasmic Transcription Factor," <i>Science</i> 257:809-813, Association for the Advancement of Science (August 1992).

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	AR	<u>18</u>	Schindler, C. <i>et al.</i> , "Proteins of transcription factor ISGF-3: One gene encodes the 91- and 84-kDa ISGF-3 proteins that are activated by interferon α ," <i>Proc. Natl. Acad. Sci. USA</i> 89:7836-7839, National Academy of Sciences of the USA (August 1992).				
	AS	<u>18</u>	Shohat, O. <i>et al.</i> , "Inhibition of Cell Growth Mediated by Plasmids Encoding p53 Anti-Sense," <i>Oncogene</i> 1:277-283, Stockton Press (1987).				
	AT	<u>18</u>	Shuai, K. <i>et al.</i> , "Activation of Transcription by IFN- γ : Tyrosine Phosphorylation of a 91-kD DNA Binding Protein," <i>Science</i> 258:1808-1812, Association for the Advancement of Science (December 1992).				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	19	Silvennoinen, O. et al., "Structure of the murine Jak2 protein-tyrosine kinase and its role in Interleukin 3 signal transduction," <i>Proc. Natl. Acad. Sci. USA</i> 90:8429-8433, National Academy of Sciences of the USA (September 1993).
AS	12	Sorensen, P. et al., "Interleukin-3 Stimulates the Tyrosine Phosphorylation of the 140-Kilodalton Interleukin-3 Receptor," <i>J. Biol. Chem.</i> 264(32):19253-19258, American Society for Biochemistry and Molecular Biology, Inc. (1989).
AT	19	Spangler, R. et al., "Erythropoietin Increases C-myc mRNA by a Protein Kinase C-dependent Pathway," <i>J. Biol. Chem.</i> 266(2):681-684, American Society for Biochemistry and Molecular Biology, Inc. (1991).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>20</u>	Stahl, N. <i>et al.</i> , "Cross-linking Identifies Leukemia Inhibitory Factor-binding Protein as a Ciliary Neurotrophic Factor Receptor Component," <i>J. Biol. Chem.</i> 268(11):7628-7631, American Society for Biochemistry and Molecular Biology, Inc. (April 1993).
	AS	<u>20</u>	Takahashi, T. and T. Shirasawa, "Molecular Cloning of Rat JAK3, a Novel Member of the JAK Family of Protein Tyrosine Kinases," <i>FEBS Letts.</i> 342:124-128, Elsevier Science Publishers B.V. (March 1994).
	AT	<u>20</u>	Tepper, R.I. <i>et al.</i> , "IL-4 Induces Allergic-like Inflammatory Disease and Alters T Cell Development in Transgenic Mice," <i>Cell</i> 62:457-467, Cell Press (1990).

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AR	<u>21</u>	Torigoe, T. <i>et al.</i> , "Interleukin-3 Regulates the Activity of the LYM Protein-Tyrosine Kinase in Myeloid-Committed Leukemic Cell Lines," <i>Blood</i> 80(3):617-624, W. B. Saunders (August 1992).
AS	<u>21</u>	Turner, B. <i>et al.</i> , "Interleukin 2 induces tyrosine phosphorylation and activation of p72-74 Raf-1 kinase in a T-cell line," <i>Proc. Natl. Acad. Sci. USA</i> 88:1227-1231, National Academy of Sciences of the USA (1991).
AT	<u>21</u>	Ullrich, A. and J. Schlessinger, "Signal Transduction by Receptors with Tyrosine Kinase Activity," <i>Cell</i> 61:203-212, MIT Press (1990).

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	AO						Yes No
	AP						Yes No

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AR	<u>22</u>	Velasquez, L. et al., "A Protein Kinase in the Interferon α/β Signaling Pathway," <i>Cell</i> 70:313-322, MIT Press (July 1992).
AS	<u>22</u>	Waldmann, T.A., "The IL-2/IL-2 receptor system: a target for rational immune intervention," <i>TIPS</i> 14:159-164, Elsevier Science Publishers Ltd (May 1993).
AT	<u>22</u>	Wang, X. et al., "Growth Hormone-promoted Tyrosyl Phosphorylation of a 121-kDa Growth Hormone Receptor-associated Protein," <i>J. Biol. Chem.</i> 268(5):3573-3579, American Society for Biochemistry and Molecular Biology, Inc. (February 1993).

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AR	23	Wang, Y. and G.M. Fuller, "Phosphorylation and Internalization of gp130 Occur After IL-6 Activation of Jak2 Kinase in Hepatocytes," <i>Molecular Biology of the Cell</i> 5:819-828, American Society for Cell Biology (July 1994).	
AS	23	Wilks, A.F., "Two putative protein-tyrosine kinases identified by application of the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86: 1603-1607, National Academy of Sciences of the USA (1989).	
AT	23	Wilks, A.F., "Structure and Function of the Protein Tyrosine Kinases," <i>Prog. Growth Factor Res.</i> 2:97-111, Pergamon Press plc (1990).	

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	AR	<u>24</u>	Wilks, A.F., "Cloning Members of Protein-Tyrosine Kinase Family Using Polymerase Chain Reaction," <i>Meth. Enzymol.</i> 200:533-546, Academic Press, Inc. (1991).
	AS	<u>24</u>	Wilks, A.F. <i>et al.</i> , "Two Novel Protein-Tyrosine Kinases, Each with a Second Phosphotransferase-Related Catalytic Domain, Define a New Class of Protein Kinase," <i>Mol. Cell. Biol.</i> 11(4):2057-2065, American Society for Microbiology (1991).
	AT	<u>24</u>	Wilks, A.F. and A.G. Harpur, "Cytokine Signal Transduction and the JAK Family of Protein Tyrosine Kinases," <i>BioEssays</i> 16(5):313-320, John Wiley & Sons, Inc. (May 1994).

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	AR	<u>25</u>	Witthuhn, B.A. et al., "JAK2 Associated with the Erythropoietin Receptor and is Tyrosine Phosphorylated and Activated following Stimulation with Erythropoietin," <i>Cell</i> 74:227-236, MIT Press (July 1993).
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	AT	<u>25</u>	Yarden, Y. and A. Ullrich, "Growth Factor Receptor Tyrosine Kinases," <i>Ann. Rev. Biochem.</i> 57:443-478, Annual Reviews Inc. (1988)

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	AR	<u>26</u>	Yoshimura, A. and H.F. Lodish, "In vitro Phosphorylation of the Erythropoietin Receptor and an Associated Protein," <i>Mol. Cell. Biol.</i> 12:706-715, American Society for Microbiology (February 1992).
	AS	<u>26</u>	Yoshimura, A. <i>et al.</i> , "Point mutation in the exoplasmic domain of the erythropoietin receptor resulting in hormone-independent activation and tumorigenicity," <i>Nature</i> 348:647-649, Macmillan Publishers Ltd. (1990).
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Applicants: IHLE *et al.*

Due Date:

Art Unit: 1632

Application No.: 09/397,967

Examiner: Nguyen, Q.

Filed: September 17, 1999

Docket: 0656.0370004

Atty: RWE/LBB

For: Jak Kinases and Regulation of Cytokine Signal Transduction

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2. Fee Transmittal (*in duplicate*);
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5. SKG&F Check No. 32288 in the amount of \$180.00 for submission of IDS; and
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